Attachment 4 – Budget

Tables 7 and 8 showing the overall project proposal and individual project budgets are included herein. The following provides a summary description of each of the projects included in the application along with the associated tables required under the Proposal Solicitation Package. A detailed breakdown of the costs associated with each task is also included for each of the projects proposed. The tasks included in the budget are consistent with the workplan and schedule. The budget descriptions for each project below include:

- Detailed costs for each project and supporting information
- Explanation of how the project costs were estimated
- Discussion of why the cost estimates are reasonable
- Proposed funding match for each project, or states whether or not a funding match waiver is being requested
- Inclusion of labor compliance
- Funding sources for the ongoing data management and monitoring is also included

In addition, for the projects that are modified or eliminated from the project list due to reduced grant funding, an additional "reduced funding" version of the tables are included.

Project 1: Consolidated Irrigation District South and Highland Basin

The budget details in this attachment are organized into a format provided with the grant Proposal Solicitation Package. A detailed breakdown of all tasks and construction costs described in the Work Plan is included in the table at the end of this attachment. The associated costs are reasonable as they are based primarily from costs associated with similar banking projects in the region. The primary source for construction cost estimating was from 2010 actual construction bids received and awarded for FID's Jameson Pond project, a similar project designed by the District's consulting engineer and partially funded through an IRWM grant from the State. The two projects are similar in size, design, operation, are reasonably close in proximity, and the same contractors will likely bid on the project. All construction and surveying costs are based on local prevailing wage rates.

Refer to the tables included at the back of this section for a detailed breakdown of the estimated conceptual construction costs.

Below is a discussion of the budget for each of the work tasks included.

Direct Project Administration Costs (Tasks 1, 2 and 3)

The Kings River Conservation District is the Fiscal and Administrative Agent for the Upper Kings Basin IRWM Authority. CID staff will assist KRCD with preparation of the required reporting information. The budget for this task includes is for administrative tasks including preparation

of the quarterly project reports, draft and final project summary report. KRCD has served as the Fiscal and Administrative Agent for numerous regional and multi-agency projects, and has found by experience that this is an accurate estimate of administrative expenses.

The budget also includes $50,000 for the engineering consultant for conference calls, meetings, progress reports, subconsultant management, coordination with stakeholders, and overall project coordination. This includes a nominal budget of $2,000 for printing, communications and travel expenses.

Land Purchase / Easement (Task 4)

CID has already entered into an Option to Purchase Agreement with the current landowner of the 75-acre parcel for the banking project. The agreement establishes a property purchase price of $981,000. In addition, the agreement establishes a $4,500 per month fee that must be paid by CID to the landowner.

The land acquisition cost equates to approximately $13,000 per acre, and includes a house and workshop. The land was previously used as a vineyard and the vines have been removed by the current landowner. The home and workshop are anticipated to be sold and relocated to another location by CID. Considering the property is bisected by one of CID's canals and no additional easements or right-of-way are anticipated to be required to construct and operate the banking facility, the cost of the property is reasonable for this project.

Planning/Design/Engineering/Environmental Documentation (Tasks 5, 6, 7, and 8)

The fees for planning, design, engineering and environmental documentation are based on fees incurred for similarly sized banking projects in the region. The work will be performed by the same project consulting engineers, surveyors and planners that completed the work for the similar banking projects. The preparation and completion of the project's feasibility study (refer to **Attachment 3b**) and associated sub-studies included in the feasibility study (Preliminary Geotechnical Investigation Report, Reconnaissance Level Biological Survey Report, and Phase 1 Environmental Site Assessment) have been paid for by a Local Groundwater Assistance Fund Grant from the DWR to investigate possible recharge sites within CID. The project's feasibility study was initiated in March 2010.

Construction/Implementation (Tasks 9 and 10)

Construction and implementation fees are based on conceptual engineer's estimates developed in the project's feasibility study and are included with the budget table at the end of this section. The quantities were estimated from a preliminary topographic survey and project layout as part of the project's feasibility study. A table for each project layout alternative is included in the feasibility study with a breakdown of items, quantities and unit costs. The

project costs discussed in the grant application and economic tables are for project layout Alternative 1 (as described in the feasibility study).

Unit costs were generally based on unit prices for similar, recent banking projects in the region from the last three years. It is assumed that the current economic conditions would allow for the project's construction costs to be similar to these 2007 prices without adjustments.

Environmental Compliance/Mitigation/Enhancement (Task 11)

The budget includes $5,000 for monitoring and minor reporting, if necessary. The preventative measures are intended to protect habitat for the local wildlife. This estimate is based on similar efforts and expenditures for similar banking projects in the region that had minor to no mitigation measures.

Construction Administration (Task 12)

Construction administration costs are based actual fees incurred for similarly sized banking projects to observe construction and administer the construction contract. It is assumed that the project consulting engineers will perform the construction observation activities.

Other Costs (Task 13)

Other costs include an estimated $20,000 for legal fees to assist with permitting, land acquisition, construction contracts, and agreements among the stakeholders. Other costs also include on-going monitoring and on-going operation and maintenance. The monitoring and operation and maintenance listed under this task are not included in the budget tables, but they are included in the economic analysis (see **Attachment 7** for more details). Ongoing operation and monitoring will be included as part of the project contribution by CID staff.

Contingencies

The construction and professional service (planning, design, environmental documentation, surveying and construction observation) fees all include a 15% contingency. The contingencies account for uncertainty in designs, unit prices and construction methods, and allowance for neglected items.

The contingencies reflect the level of design, of which only a feasibility study and limited site layout design has been prepared. In addition, actual costs for similar banking facilities and services in the area are available. This data was used to estimate costs for the proposed project and has helped to increase confidence in the estimated costs.

Construction Implementation Contingency

As stated above, the construction contingency is 15%.

Matching Funds

The total project cost for the Alternative 1 project layout (refer to the feasibility study in **Attachment 3b**) is estimated to be $4,627,000. CID is seeking grant funding for $4,227,000 and would provide funding for the remaining $400,000. Thus, CID will be funding approximately 9% of the project costs. CID is currently paying for an option on the property, and will continue to pay for that option. In addition, CID has paid for engineering and some other services. CID's total remaining cost share associated with project will be paid for out of CID's water sale fund, which currently has a balance of more than $1,000,000.

CID has begun negotiations with project partners looking to secure a water supply. Without a funding partnership agreement for the project, the construction and development of the project would be phased. The initial phase of the banking project would consist of constructing only the Alternative 3 project layout (east half of full project). This would include the construction of one recovery well as well as two canal turnouts to divert water into Cells 2 and 3. Upon securing additional funding, additional recharge basins and recovery/extraction wells would be constructed to produce a fully operational banking facility. The reduced project cost would be $3,200,000, and CID would be seeking grant funding for $2,800,000. The cost share would then be approximately 13%.

The Economic Analysis (**Attachment 7**) and the Economic Analysis Tables (**Attachment 9**) include an analysis for both the full and reduced projects.

Project 2: City of Clovis SWTP Expansion

The budget details in this attachment are organized into a format provided with the grant Proposal Solicitation Package. A detailed breakdown of all tasks and construction costs described in the Work Plan is included in the table at the end of this attachment. The costs associated are reasonable as they are based primarily from actual costs associated with similar tasks at the existing Plant and quotes from product suppliers. Some additional quotations were received from contractors, as well as actual costs for construction of similar projects within the area. All construction costs are based on local prevailing wage rates.

Below is a discussion of the budget for each of the work tasks included.

Direct Project Administration Costs

Direct Project Administration Costs include tasks 1, 2, and 3.

The Kings River Conservation District is the Fiscal and Administrative Agent for the Upper Kings Basin IRWM Authority. City staff will assist KRCD with preparation of the required reporting information. The budget for this task includes is for administrative tasks including preparation of the quarterly project reports, draft and final project summary report. KRCD has served as the Fiscal and Administrative Agent for numerous regional and multi-agency projects, and has found by experience that this is an accurate estimate of administrative expenses.

The budget also includes monies for the engineering consultant for conference calls, meetings, progress reports, sub-consultant management, and overall project coordination. This includes a nominal budget for printing, communications and travel expenses.

Land Purchase/Easement

The City of Clovis already owns the land the Expansion will be constructed on. There is no land acquisition costs associated with this project unless the City constructs the sewer pipeline option.

Planning/Design/Engineering/Environmental Documentation

Planning/Design/Engineering/Environmental Documentation includes tasks 4, 5, 6, and 7.

The fees for planning, design, engineering and environmental documentation are based on estimated tasks and subtasks. These estimates were created largely based on the efforts to plan and design the existing Plant, which has many similar design features.

Construction/Implementation

Construction/Implementation includes tasks 8, 9.1, 9.2, and 9.3. Subtasks 9.2.1, 9.2.2, 9.2.3, and 9.2.4 are included in task 9.2.

Construction and implementation fees are estimates based on similar projects' expenses.

Environmental Compliance/Mitigation/Enhancement

Direct Project Administration Costs includes task 10.

Construction Administration

Construction Administration Costs includes task 11.

Construction administration costs are based on estimated requirements needed to observe construction and administer the construction contract. These are based on the experience from observing construction at the existing Plant.

Other Costs

Other costs include legal fees to assist with permitting, construction contracts, and easement processing.

Construction Implementation Contingency

The construction contingency is estimated to be 20%. The contingencies account for uncertainty in designs, construction costs, and allowance for neglected items.

Matching Funds

The total project cost is estimated to be $4,250,000. The City of Clovis is seeking grant funds of $3,000,000 and will provide funding for the remaining $1,250,000. Thus, the City will be funding 29% of the project costs.

Project 3: Fresno County Drummond Jensen Ave Sewer Connection Study

The budget details in this attachment are organized into a format provided with the grant Proposal Solicitation Package. A detailed breakdown of all tasks described in the Work Plan is included in the table at the end of this attachment. The associated costs are reasonable as they are based primarily from costs associated with similar study projects in the region. All surveying costs incorporate local prevailing wage rates.

Refer to the table included at the back of this section for a detailed breakdown of the estimated conceptual construction costs. This is included for reference only, as construction is not part of the project included in this grant application.

The tables included in this section consist of:

- Detailed Budget
- Table 7 – Project Budget
- Conceptual construction cost estimate

Below is a discussion of the budget for each of the work tasks included in **Attachment 3**.

Direct Project Administration Costs (Tasks 1, 2 and 3)

The Kings River Conservation District is the Fiscal and Administrative Agent for the Upper Kings Basin IRWM Authority. Fresno County staff, or an assigned third party, will assist KRCD with preparation of the required reporting information. The budget for this task includes is for administrative tasks including preparation of the quarterly project reports, draft and final project summary reports. KRCD has served as the Fiscal and Administrative Agent for numerous regional and multi-agency projects, and has found by experience that this is an accurate estimate of administrative expenses. This task also includes a labor compliance program for the surveying task of the project (described below). Fresno County estimates that an amount equal to approximately 15% ($71,500) of the estimated construction costs will be used for project administration, project design, and environmental tasks. Of this amount, it is anticipated that project administration, reporting, and the labor compliance project will cost approximately $15,000.

Planning/Design/Engineering/Environmental Documentation (Tasks 4, 5, and 6)

The fees for planning, design, engineering and environmental documentation are based on fees incurred for similarly sized Fresno County sewer projects in the region. The County has determined from previous design projects that approximately 10% of the estimated construction cost can be used to estimate field surveying costs, while approximately 15% of the estimated construction cost can be used to estimate administration, design, and environmental fees (as previously explained). It is anticipated that survey costs will be approximately $47,600, project assessment and evaluation (feasibility study) will be approximately $10,000, with a final

design cost of approximately $41,500. Environmental fees are estimated to be approximately $5,000 since it is assumed that only minor environmental review and documentation (CEQA Notice of Exemption) will be necessary.

Matching Funds

The total project cost is estimated to be $119,090. The Drummond Jensen Avenue neighborhood qualifies as a Disadvantaged Community and is therefore seeking a funding match waiver. Fresno County is prepared to fund the study project using its general fund prior to receiving State grant funding reimbursements.

Project 4: East Orosi CSD Water Well Rehabilitation Project

The budget details in this attachment are organized into a format provided with the grant Proposal Solicitation Package. A detailed breakdown of all tasks and construction costs described in the Work Plan is included in the table at the end of this attachment. The associated costs are reasonable as they are based primarily from costs associated with similar well rehabilitation projects in the region and estimated by a local hydrogeologist familiar with this type of work. Refer to the Kenneth Schmidt Letter Report (**Attachment 3n**) for a detailed breakdown of the estimated conceptual construction costs.

All construction costs are based on local prevailing wage rates.

Below is a discussion of the budget for each of the work tasks included.

Contingencies

The construction (including construction observation) fees include a 15% contingency. The contingencies account for uncertainties accounted for during construction, unit prices and construction methods, and allowance for neglected items.

The contingencies reflect the level of design, of which only a water system study and feasibility letter report has been prepared. This data was used to estimate costs for the proposed project and has helped to increase confidence in the estimated costs.

Direct Project Administration Costs (Tasks 1, 2 and 3)

The Kings River Conservation District is the Fiscal and Administrative Agent for the Upper Kings Basin IRWM Authority. East Orosi CSD staff or its administrative contractor will assist KRCD with preparation of the required reporting information. The budget for this task includes is for administrative tasks including preparation of the quarterly project reports, draft and final project summary report. KRCD has served as the Fiscal and Administrative Agent for numerous regional and multi-agency projects, and has found by experience that this is an accurate estimate of administrative expenses.

Planning/Design/Engineering/Environmental Documentation (Tasks 4, 5, and 6)

The fees for planning, design, engineering and environmental documentation are based on fees incurred for similar well rehabilitation projects in the region. Much of the work will be performed by the same project consulting engineers and hydrogeologist that completed the feasibility and study work for the project. The majority of the work in this category consists of the preparation of project specifications and construction contract documents.

Construction/Implementation (Tasks 7 and 8)

Construction and implementation fees are based on the hydrogeologist's estimates developed in the project's study and are included with the budget table at the end of this section. Refer to

the Report Letter included in **Attachment 3n** for a discussion of the estimated construction costs.

Construction costs were generally based on unit prices for similar, recent well rehabilitation projects in the region.

Construction Administration (Task 9)

Construction administration costs are based on those of similarly sized well rehabilitation projects to observe construction and administer the construction contract. It is assumed that the project consulting engineers and/or hydrogeologist will perform the construction observation activities.

Other Costs (Task 10)

Other costs include on-going monitoring and on-going operation and maintenance. The monitoring and operation and maintenance listed under this task are not included in the budget tables, but they are discussed in the economic analysis (see **Attachment 7** for more details). Ongoing operation and monitoring will be included as part of the project contribution by East Orosi CSD staff.

Construction Implementation Contingency

As stated above, the construction contingency is 15%.

Matching Funds

The total project cost is estimated to be $137,000. The Community of East Orosi qualifies as a Disadvantaged Community and is therefore seeking a funding match waiver. East Orosi CSD will acquire a Rural Community Assistance Program bridge loan in order to fund the project prior to receiving State grant funding reimbursements. Future operation costs will be born by the East Orosi CSD in accordance with their current operations and expenditures.

Project 5: City of Fresno Residential Water Meter Project (Area IV)

The budget details in this attachment are organized into a format provided with the grant Proposal Solicitation Package. A detailed breakdown of all tasks described in the Work Plan is included in the tables at the end of this attachment. The costs associated are reasonable and based on experience of the City of Fresno's actual bids received for other areas already of the city already receiving meters. Project costs are summarized in Table 7 – Project Budget, attached at the end of this section.

Initial project costs related to any land costs, planning and design, environmental compliance and documentation costs were completed prior to September 30, 2008 and are not being included for reimbursement request under this Grant. Grant request and matching funds for Contract Area 4 of the City's Residential Water Meter Program are itemized on Table 7.

Below is a discussion of the budget for each of the work tasks included.

Direct Project Administration Costs

The Kings River Conservation District (KRCD) is the Fiscal and Administrative Agent for the Upper Kings Basin IRWM Authority. City of Fresno staff will assist KRCD with preparation of the required reporting information. The budget for this task includes subtasks for project administration, development of a Labor Compliance Program, and reporting, including preparation of the quarterly project reports as well as the draft and final project summary report.

The project administration budget includes time for conference calls, meetings, progress reports, and overall project coordination. This includes a nominal budget for printing, communications and travel expenses.

The direct project administration costs also cover the development of a Labor Compliance Program. This will involve coordination with legal counsel and/or a consultant to assist in the preparation of this program document.

The budget for reporting includes time for preparing quarterly, annual, and final project reports, as well as a nominal budget for printing expenses.

Land Purchase/Easement

No land acquisition is required as a part of this project.

Planning/Design/Engineering/Environmental Documentation

These fees are not included in this phase of the project since this work has been previously completed.

Construction/Implementation

Construction and implementation fees are based on an estimate of work from installations already performed by Fresno, which are discussed in **Attachment 7**. The costs and quantities associated with retrofitting existing service connections are based on Fresno's knowledge of the existing system.

Environmental Compliance/Mitigation/Enhancement

No environmental compliance, mitigation, or enhancement measures are anticipated to be required as a part of this project.

Construction Administration

Construction administration costs were estimated based on a percentage (9%) of the estimated construction costs. This is an appropriate estimate based on similar projects previously completed by the City of Fresno.

Other Costs

Other costs include on-going monitoring and administration and on-going operation and maintenance. The monitoring and operation and maintenance listed under this task are not included in the budget tables, but they are included in the economic analysis (see **Attachment 7** for more details). Ongoing operation and monitoring will be included as part of the project contribution by City of Fresno staff.

Construction Implementation Contingency

A 10% construction contingency is included to account for uncertainty in unit prices and construction methods, and allowance for neglected items. The contingency also reflects the uncertainty of retrofitting the many types of existing meters and valves that may be present in this portion of the City of Fresno.

Matching Funds

The total project cost is estimated to be $6,815,000. The City of Fresno is requesting a grant in the amount of $4,507,600 to cover approximately 34% of the project costs.

Project 6: Bakman Water Company Water Meter Installation Project

The budget details in this attachment are organized into a format provided with the grant Proposal Solicitation Package. A detailed breakdown of all tasks and construction costs described in the Work Plan is included in the tables at the end of this attachment. The costs associated are reasonable and based on experience of Bakman and their consulting engineer. Project costs are summarized in Table 7 – Project Budget, attached at the end of this section.

Also included in this section is supporting information for the budget prepared, including:

- Detailed Budget of All Tasks in the Workplan
- Detail of Construction Costs in Task (d)

Below is a discussion of the budget for each of the work tasks included.

Direct Project Administration Costs

The Kings River Conservation District (KRCD) is the Fiscal and Administrative Agent for the Upper Kings Basin IRWM Authority. Bakman staff will assist KRCD with preparation of the required reporting information. The budget for this task includes subtasks for project administration, development of a Labor Compliance Program, and reporting, including preparation of the quarterly project reports as well as the draft and final project summary report.

The project administration budget includes time for the engineering consultant for conference calls, meetings, progress reports, and overall project coordination. This includes a nominal budget for printing, communications and travel expenses.

The direct project administration costs also cover the development of a Labor Compliance Program. This will involve coordination with legal counsel and/or a consultant to assist in the preparation of this program document.

The budget for reporting includes time for preparing quarterly, annual, and final project reports, as well as a nominal budget for printing expenses.

Land Purchase/Easement

No land acquisition is required as a part of this project.

Planning/Design/Engineering/Environmental Documentation

The fees for planning, design, engineering and environmental documentation are based on estimated person-hours for tasks and subtasks including previous studies and coordination, final design, environmental process and documentation, and permitting processes. These estimates were created based on the consulting engineer's experience with similar project applications.

Construction/Implementation

Construction and implementation fees are based on an estimate of work from installations already performed by Bakman, which is included at the end of this section. The quantities were determined from Bakman records. Unit costs were generally based on unit prices for similar, recent projects and price quotations from Neptune. The costs and quantities associated with retrofitting existing service connections are based on Bakman's knowledge of the existing system.

Environmental Compliance/Mitigation/Enhancement

No environmental compliance, mitigation, or enhancement measures are anticipated to be required as a part of this project.

Construction Administration

Construction administration costs are based on person-hour requirements needed to observe construction and administer the construction contract. These person-hour requirements are based on the construction duration and experience from previous projects.

Other Costs

Other costs include on-going monitoring and administration and on-going operation and maintenance. The monitoring and operation and maintenance listed under this task are not included in the budget tables, but they are included in the economic analysis (see **Attachment 7** for more details). Ongoing operation and monitoring will be included as part of the project contribution by the Bakman staff.

Construction Implementation Contingency

A 10% construction contingency is included to account for uncertainty in designs, unit prices and construction methods, and allowance for neglected items. The contingency reflects the preliminary stages that the project is currently in.

Matching Funds

The total project cost is estimated to be $2,950,000. Bakman qualifies as a Disadvantaged Community and is therefore seeking a funding match waiver.

Table 7 - Project Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects

Project Title: Consolidated Irrigation District - South & Highland Basin Project - Full Funding

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs	$0	$269,000	$0	$269,000	**0%**
(b)	Land Purchase/Easement	$63,000	$981,000	$0	$1,044,000	**6%**
(c)	Planning/Design/Engineering/ Environmental Documentation	$110,000	$150,000	$0	$260,000	**42%**
(d)	Construction/Implementation	$227,000	$2,213,000	$0	$2,440,000	**9%**
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$5,000	$0	$5,000	**0%**
(f)	Construction Administration	$0	$160,000	$0	$160,000	**0%**
(g)	Other Costs	$0	$20,000	$0	$20,000	**0%**
(h)	Construction/Implementation Contingency	$0	$429,000	$0	$429,000	**0%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$400,000**	**$4,227,000**	**$0**	**$4,627,000**	**9%**

***List sources of funding:** *Use as much space as required.*

Table 7 - Project Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects

Project Title: Consolidated Irrigation District - South & Highland Basin Project - Reduced Funding

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs	$0	$262,000	$0	$262,000	**0%**
(b)	Land Purchase/Easement	$63,000	$981,000	$0	$1,044,000	**6%**
(c)	Planning/Design/Engineering/ Environmental Documentation	$110,000	$140,000	$0	$250,000	**44%**
(d)	Construction/Implementation	$227,000	$1,043,000	$0	$1,270,000	**18%**
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$5,000	$0	$5,000	**0%**
(f)	Construction Administration	$0	$105,000	$0	$105,000	**0%**
(g)	Other Costs	$0	$20,000	$0	$20,000	**0%**
(h)	Construction/Implementation Contingency	$0	$244,000	$0	$244,000	**0%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$400,000**	**$2,800,000**	**$0**	**$3,200,000**	**13%**

***List sources of funding:** *Use as much space as required.*

Table 7 - Project Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects

Project Title: City of Clovis Surface Water Treatment Plant Expansion

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs	$70,000	$50,000	$0	$120,000	**58%**
(b)	Land Purchase/Easement	$10,000	$30,000	$0	$40,000	**25%**
(c)	Planning/Design/Engineering/ Environmental Documentation	$63,150	$107,950	$0	$171,100	**37%**
(d)	Construction/Implementation	$898,250	$2,223,750	$0	$3,122,000	**29%**
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$0	$0	$0	**0%**
(f)	Construction Administration	$27,500	$70,000	$0	$97,500	**28%**
(g)	Other Costs	$25,000	$50,000	$0	$75,000	**33%**
(h)	Construction/Implementation Contingency	$156,100	$468,300	$0	$624,400	**25%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$1,250,000**	**$3,000,000**	**$0**	**$4,250,000**	**29%**

***List sources of funding:** *The City of Clovis anticipates paying for their share of the project through local funds.*

Table 7 - Project Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects

Project Title: City of Fresno Residentlal Water Meter Project - Area 4 - Full Funding

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs	$0	$0	$0	$0	**0%**
(b)	Land Purchase/Easement	$0	$0	$0	$0	**0%**
(c)	Planning/Design/Engineering/ Environmental Documentation	$0	$0	$0	$0	**0%**
(d)	Construction/Implementation	$2,088,500	$4,076,500	$0	$6,165,000	**34%**
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$0	$0	$0	**0%**
(f)	Construction Administration	$218,900	$431,100	$0	$650,000	**34%**
(g)	Other Costs	$0	$0	$0	$0	**0%**
(h)	Construction/Implementation Contingency	$0	$0	$0	$0	**0%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$2,307,400**	**$4,507,600**	**$0**	**$6,815,000**	**34%**

***List Sources of Funding:** *City of Fresno 2010 Revenue Bonds*

Table 7 - Project Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects

Project Title: East Orosi Water Well Rehabilitation Project

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs		$4,000		$4,000	**0%**
(b)	Land Purchase/Easement		$0		$0	**0%**
(c)	Planning/Design/Engineering/ Environmental Documentation		$5,000		$5,000	**0%**
(d)	Construction/Implementation		$111,000		$111,000	**0%**
(e)	Environmental Compliance/ Mitigation/Enhancement		$0		$0	**0%**
(f)	Construction Administration		$0		$0	**0%**
(g)	Other Costs		$0		$0	**0%**
(h)	Construction/Implementation Contingency (15% of hard costs)		$17,000		$17,000	**0%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$0**	**$137,000**	**$0**	**$137,000**	**0%**

***List sources of funding:**

Table 7 - Project Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects

Project Title: City of Fresno Residentlal Water Meter Project - Area 4 - Full Funding

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs	$0	$0	$0	$0	**0%**
(b)	Land Purchase/Easement	$0	$0	$0	$0	**0%**
(c)	Planning/Design/Engineering/ Environmental Documentation	$0	$0	$0	$0	**0%**
(d)	Construction/Implementation	$2,088,500	$4,076,500	$0	$6,165,000	**34%**
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$0	$0	$0	**0%**
(f)	Construction Administration	$218,900	$431,100	$0	$650,000	**34%**
(g)	Other Costs	$0	$0	$0	$0	**0%**
(h)	Construction/Implementation Contingency	$0	$0	$0	$0	**0%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$2,307,400**	**$4,507,600**	**$0**	**$6,815,000**	**34%**

***List Sources of Funding:** *City of Fresno 2010 Revenue Bonds*

Table 7 - Project Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects

Project Title: City of Fresno Residentlal Water Meter Project - Area 4 - Reduced Funding

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs	$0	$0	$0	$0	**0%**
(b)	Land Purchase/Easement	$0	$0	$0	$0	**0%**
(c)	Planning/Design/Engineering/ Environmental Documentation	$0	$0	$0	$0	**0%**
(d)	Construction/Implementation	$5,611,536	$553,464	$0	$6,165,000	**91%**
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$0	$0	$0	**0%**
(f)	Construction Administration	$592,887	$57,113	$0	$650,000	**91%**
(g)	Other Costs	$0	$0	$0	$0	**0%**
(h)	Construction/Implementation Contingency	$0	$0	$0	$0	**0%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$6,204,423**	**$610,577**	**$0**	**$6,815,000**	**91%**

***List Sources of Funding:** *City of Fresno 2010 Revenue Bonds*

Table 7 - Project Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects

Project Title:_____Bakman Water Company Water Meter Installation_____

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs	$0	$40,000	$0	$40,000	**0%**
(b)	Land Purchase/Easement	$0	$0	$0	$0	**0%**
(c)	Planning/Design/Engineering/ Environmental Documentation	$0	$120,000	$0	$120,000	**0%**
(d)	Construction/Implementation	$0	$2,500,000	$0	$2,500,000	**0%**
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$0	$0	$0	**0%**
(f)	Construction Administration	$0	$40,000	$0	$40,000	**0%**
(g)	Other Costs	$0	$0	$0	$0	**0%**
(h)	Construction/Implementation Contingency	$0	$250,000	$0	$250,000	**0%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$0**	**$2,950,000**	**$0**	**$2,950,000**	**0%**

***List sources of funding:** *Bakman claims funding match waiver as a DAC.*

Attachment 4 - Detailed Project Budget - CID South and Highland Basin Project (Full Project)

Task No.	Task Description	Project Manager (hrs)	Senior Professional (hrs)	Assistant Professional (hrs)	Technician (hrs)	Administration (hrs)	Labor Total	Other Direct Costs	Non-State Share (Funding Match)	Requested Grant Funding	Total	% Funding Match
	Billing Rate	$160	$140	$105	$85	$60						
a	**Direct Project Administration Costs**	**738**	**100**	**160**	**150**	**605**	**$ 198,000**	**$ 71,000**	$ -	$ 269,000	$ 269,000	0%
1.1	Consolidated Irrigation District Project Administration	366			100	300	$ 85,000	$ 40,000	$ -	$ 125,000	$ 125,000	0%
1.2	Engineering Consultant Project Administration	148	50	50		150	$ 45,000	$ 5,000	$ -	$ 50,000	$ 50,000	0%
2	Labor Compliance Program (during construction)	10		10		5	$ 3,000	$ 21,000	$ -	$ 24,000	$ 24,000	0%
3	Reporting	214	50	100	50	150	$ 65,000	$ 5,000	$ -	$ 70,000	$ 70,000	0%
b	**Land Purchase/Easement**								$ 63,000	$ 981,000	$ 1,044,000	6%
4.1	Option to Purchase Agreement (14 months)								$ 63,000	$ -	$ 63,000	100%
4.2	Land Purchase/Acquisition								$ -	$ 981,000	$ 981,000	0%
c	**Planning/Design/Engineering/Environmental Documentation**	**356**	**200**	**434**	**685**	**138**	**$ 197,000**	**$ 51,000**	$ 110,000	$ 150,000	$ 260,000	42%
5.1	Feasibility Study	120	80	240	148	30	$ 70,000	$ 30,000	$ 100,000	$ -	$ 100,000	100%
5.2	Establish Monitoring Committee	20		6		20	$ 5,000	$ 5,000	$ 10,000	$ -	$ 10,000	100%
6.1	Surveying	8		8	140		$ 14,000	$ 1,000	$ -	$ 15,000	$ 15,000	0%
6.2	Design	160	120	160	275	40	$ 85,000	$ 15,000	$ -	$ 100,000	$ 100,000	0%
7	Environmental Documentation	40		20	84	40	$ 18,000	$ 7,000	$ -	$ 25,000	$ 25,000	0%
8	Permitting	8			38	8	$ 5,000	$ 5,000	$ -	$ 10,000	$ 10,000	0%
d	**Construction/Implementation**								$ 227,000	$ 2,213,000	$ 2,440,000	9%
9	Construction Contracting								$ -	$ 10,000	$ 10,000	0%
10.1	Mobilization								$ -	$ 220,000	$ 220,000	0%
10.2	Recharge Basin and Levee Construction								$ -	$ 980,000	$ 980,000	0%
10.3	Project Canal Check and Basin Turnout Structures								$ -	$ 280,000	$ 280,000	0%
10.4	Recovery Well Construction								$ 227,000	$ 373,000	$ 600,000	38%
10.5	Monitoring Well Construction								$ -	$ 50,000	$ 50,000	0%
10.6	Other Site Improvements								$ -	$ 280,000	$ 280,000	0%
10.7	Performance Testing and Demobilization								$ -	$ 20,000	$ 20,000	0%
e	**Environmental Compliance/ Mitigation/Enhancement**								$ -	$ 5,000	$ 5,000	0%
11	Environmental Compliance/ Mitigation/Enhancement								$ -	$ 5,000	$ 5,000	0%
f	**Construction Administration**	**328**	**40**	**176**	**748**	**40**	**$ 142,500**	**$ 17,500**	$ -	$ 160,000	$ 160,000	0%
12.1	Construction Observation	320	40	160	694	40	$ 135,000	$ 15,000	$ -	$ 150,000	$ 150,000	0%
12.2	Record Drawings	4		8	36		$ 4,500	$ 500	$ -	$ 5,000	$ 5,000	0%
12.3	O&M Manuals and Monitoring Plan	4		8	18		$ 3,000	$ 2,000	$ -	$ 5,000	$ 5,000	0%
g	**Other**								$ -	$ 20,000	$ 20,000	0%
13.1	Legal Services								$ -	$ 20,000	$ 20,000	0%
13.2	On-going Monitoring	Costs Provided by CID							$ -	$ -	$ -	0%
13.3	On-going Operation and Maintenance	Costs Provided by CID							$ -	$ -	$ -	0%
h	**Construction/Implementation Contingency**								$ -	$ 429,000	$ 429,000	0%
h.1	Professional Service / Construction Contingency (15%)								$ -	$ 429,000	$ 429,000	0%
	TOTAL								**$ 400,000**	**$ 4,227,000**	**$ 4,627,000**	**9%**

Notes: Conceptual construction cost estimate details for Task 10 above are included in additional tables in Attachment 4.

Attachment 4 - Detailed Project Budget - CID South and Highland Basin Project (Reduced Project)

Task No.	Task Description	Project Manager (hrs)	Senior Professional (hrs)	Assistant Professional (hrs)	Technician (hrs)	Administration (hrs)	Labor Total	Other Direct Costs	Non-State Share (Funding Match)	Requested Grant Funding	Total	% Funding Match
	Billing Rate	$160	$140	$105	$85	$60						
a	**Direct Project Administration Costs**	**738**	**100**	**160**	**150**	**605**	**$ 198,000**	**$ 71,000**	$ -	$ 262,000	$ 262,000	0%
1.1	Consolidated Irrigation District Project Administration	366			100	300	$ 85,000	$ 40,000	$ -	$ 120,000	$ 120,000	0%
1.2	Engineering Consultant Project Administration	148	50	50		150	$ 45,000	$ 5,000	$ -	$ 50,000	$ 50,000	0%
2	Labor Compliance Program (during construction)	10		10		5	$ 3,000	$ 21,000	$ -	$ 22,000	$ 22,000	0%
3	Reporting	214	50	100	50	150	$ 65,000	$ 5,000	$ -	$ 70,000	$ 70,000	0%
b	**Land Purchase/Easement**								$ 63,000	$ 981,000	$ 1,044,000	6%
4.1	Option to Purchase Agreement (14 months)								$ 63,000	$ -	$ 63,000	100%
4.2	Land Purchase/Acquisition								$ -	$ 981,000	$ 981,000	0%
c	**Planning/Design/Engineering/Environmental Documentation**	**336**	**200**	**414**	**630**	**138**	**$ 187,000**	**$ 51,000**	$ 110,000	$ 140,000	$ 250,000	44%
5.1	Feasibility Study	120	80	240	148	30	$ 70,000	$ 30,000	$ 100,000	$ -	$ 100,000	100%
5.2	Establish Monitoring Committee	20		6		20	$ 5,000	$ 5,000	$ 10,000	$ -	$ 10,000	100%
6.1	Surveying	8		8	140		$ 14,000	$ 1,000	$ -	$ 15,000	$ 15,000	0%
6.2	Design	140	120	140	220	40	$ 75,000	$ 15,000	$ -	$ 90,000	$ 90,000	0%
7	Environmental Documentation	40		20	84	40	$ 18,000	$ 7,000	$ -	$ 25,000	$ 25,000	0%
8	Permitting	8			38	8	$ 5,000	$ 5,000	$ -	$ 10,000	$ 10,000	0%
d	**Construction/Implementation**								$ 227,000	$ 1,043,000	$ 1,270,000	18%
9	Construction Contracting								$ -	$ 10,000	$ 10,000	0%
10.1	Mobilization								$ -	$ 120,000	$ 120,000	0%
10.2	Recharge Basin and Levee Construction								$ -	$ 470,000	$ 470,000	0%
10.3	Project Canal Check and Basin Turnout Structures								$ -	$ 120,000	$ 120,000	0%
10.4	Recovery Well Construction								$ 227,000	$ 73,000	$ 300,000	76%
10.5	Monitoring Well Construction								$ -	$ 50,000	$ 50,000	0%
10.6	Other Site Improvements								$ -	$ 180,000	$ 180,000	0%
10.7	Performance Testing and Demobilization								$ -	$ 20,000	$ 20,000	0%
e	**Environmental Compliance/ Mitigation/Enhancement**								$ -	$ 5,000	$ 5,000	0%
11	Environmental Compliance/ Mitigation/Enhancement								$ -	$ 5,000	$ 5,000	0%
f	**Construction Administration**	**248**	**40**	**176**	**251**	**40**	**$ 87,500**	**$ 17,500**	$ -	$ 105,000	$ 105,000	0%
12.1	Construction Observation	240	40	160	198	40	$ 80,000	$ 15,000	$ -	$ 95,000	$ 95,000	0%
12.2	Record Drawings	4		8	36		$ 4,500	$ 500	$ -	$ 5,000	$ 5,000	0%
12.3	O&M Manuals and Monitoring Plan	4		8	18		$ 3,000	$ 2,000	$ -	$ 5,000	$ 5,000	0%
g	**Other**								$ -	$ 20,000	$ 20,000	0%
13.1	Legal Services								$ -	$ 20,000	$ 20,000	0%
13.2	On-going Monitoring	Costs Provided by CID							$ -	$ -	$ -	0%
13.3	On-going Operation and Maintenance	Costs Provided by CID							$ -	$ -	$ -	0%
h	**Construction/Implementation Contingency**								$ -	$ 244,000	$ 244,000	0%
h.1	Professional Service / Construction Contingency (15%)								$ -	$ 244,000	$ 244,000	0%
	TOTAL								**$ 400,000**	**$ 2,800,000**	**$ 3,200,000**	**13%**

Notes: Conceptual construction cost estimate details for Task 10 above are included in additional tables in Attachment 4.

EST. 1968
PROVOST& PRITCHARD
CONSULTING GROUP
An Employee Owned Company

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Consolidated Irrigation District
South and Highland Basin
Alternative 1 (Full Property Usage)
(revised 11-11-2010)

CONCEPTUAL

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Amount
1	Mobilization/demobilization, bonds & insurance (5%)	1	LS	$110,000	$110,000
2	Worker Protection (5%)	1	LS	$110,000	$110,000
				Sub Total:	**$220,000**
	Basin Earthwork				
3	Clearing and Grubbing	75	AC	$700	$50,000
4	Site Demolition (Buildings, Overhead Electric, etc.)	1	LS	$100,000	$100,000
5	Cell 1 Levee Earthwork (Fill)	20,000	CY	$4	$80,000
6	Cell 2 Levee Earthwork (Fill)	15,000	CY	$4	$60,000
7	Cell 3 Levee Earthwork (Fill)	44,000	CY	$4	$180,000
8	Excavate and Export Surplus Earthwork	73,000	CY	$7	$510,000
				Sub Total:	**$980,000**
	Control/Diversion Structures				
9	Furnish and Install Basin Turnout Structure w/ 48" Slide Gate	3	EA	$50,000	$150,000
10	Flow Measurement (Flow Meter at Basin Turnout)	3	EA	$10,000	$30,000
11	Construct Project Diversion Check Structure and Apurtenances (Misc Metals, Stilling Well, etc.)	1	LS	$100,000	$100,000
				Sub Total:	**$280,000**
	Recovery Wells				
12	Construct Recovery Well (well, well head, and discharge)	2	EA	$300,000	$600,000
				Sub Total:	**$600,000**
	Monitoring Wells				
13	Construct Shallow Monitoring Wells	2	EA	$25,000	$50,000
				Sub Total:	**$50,000**
	Other Site Improvements				
14	Furnish and Install Perimeter Wire Fence and Gates	7,800	LF	$10	$80,000
15	Furnish and Install 3/4" Crushed Gravel for Levees (16' Wide, 12,600 LF, 3" Thick, 105 lb/cf)	2,700	TON	$25	$70,000
16	Construct Overhead Electric Lines for Recovery Wells	2,000	LF	$25	$50,000
17	Misc Site Electrical	1	LS	$80,000	$80,000
				Sub Total:	**$280,000**
	Subtotal				$2,410,000
	Contingency			15%	$362,000
			PRELIMINARY COST ESTIMATE:		**$2,770,000**

NOTE(S):

EST. 1968
PROVOST& PRITCHARD
CONSULTING GROUP
An Employee Owned Company

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Consolidated Irrigation District
South and Highland Basin
Alternative 2 (House Remaining)
(revised 11-11-2010)

CONCEPTUAL

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Amount
1	Mobilization/demobilization, bonds & insurance (5%)	1	LS	$110,000	$110,000
2	Worker Protection (5%)	1	LS	$110,000	$110,000
				Sub Total:	**$220,000**
	Basin Earthwork				
3	Clearing and Grubbing	70	AC	$700	$50,000
4	Site Demolition (Buildings, Overhead Electric, etc.)	1	LS	$100,000	$100,000
5	Cell 1 Levee Earthwork (Fill)	20,000	CY	$4	$80,000
6	Cell 2 Levee Earthwork (Fill)	15,000	CY	$4	$60,000
7	Cell 3 Levee Earthwork (Fill)	35,000	CY	$4	$140,000
8	Cell 4 Levee Earthwork (Fill)	7,300	CY	$4	$30,000
9	Excavate and Export Surplus Earthwork	57,000	CY	$7	$400,000
				Sub Total:	**$860,000**
	Control/Diversion Structures				
10	Furnish and Install Basin Turnout Structure w/ 48" Slide Gate	4	EA	$50,000	$200,000
11	Flow Measurement (Flow Meter at Basin Turnout)	4	EA	$10,000	$40,000
12	Construct Project Diversion Check Structure and Apurtenances (Misc Metals, Stilling Well, etc.)	1	LS	$100,000	$100,000
				Sub Total:	**$340,000**
	Recovery Wells				
13	Construct Recovery Well (well, well head, and discharge)	2	EA	$300,000	$600,000
				Sub Total:	**$600,000**
	Monitoring Wells				
14	Construct Shallow Monitoring Wells	2	EA	$25,000	$50,000
				Sub Total:	**$50,000**
	Other Site Improvements				
15	Furnish and Install Perimeter Wire Fence and Gates	8,800	LF	$10	$90,000
16	Furnish and Install 3/4" Crushed Gravel for Levees (16' Wide, 12,600 LF, 3" Thick, 105 lb/cf)	2,646	TON	$25	$70,000
17	Construct Overhead Electric Lines for Recovery Wells	2,000	LF	$25	$50,000
18	Misc Site Electrical	1	LS	$80,000	$80,000
				Sub Total:	**$290,000**
	Subtotal				$2,400,000
	Contingency			15%	$360,000
				PRELIMINARY COST ESTIMATE:	**$2,760,000**

NOTE(S):

EST. 1968
PROVOST& PRITCHARD
CONSULTING GROUP
An Employee Owned Company

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Consolidated Irrigation District
South and Highland Basin
Alternative 3 (Only Cells 2 and 3)
(revised 12-13-2010)

CONCEPTUAL

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Amount
1	Mobilization/demobilization, bonds & insurance (5%)	1	LS	$60,000	$60,000
2	Worker Protection (5%)	1	LS	$60,000	$60,000
				Sub Total:	**$120,000**
	Basin Earthwork				
3	Clearing and Grubbing	40	AC	$700	$30,000
4	Site Demolition (Well Destruction, Overhead Electric, etc.)	1	LS	$30,000	$30,000
5	Cell 2 Levee Earthwork (Fill)	10,000	CY	$4	$40,000
6	Cell 3 Levee Earthwork (Fill)	12,500	CY	$4	$50,000
7	Excavate and Export Surplus Earthwork	46,000	CY	$7	$320,000
				Sub Total:	**$470,000**
	Control/Diversion Structures				
8	Furnish and Install Basin Turnout Structure w/ 48" Slide Gate	2	EA	$50,000	$100,000
9	Flow Measurement (Flow Meter at Basin Turnout)	2	EA	$10,000	$20,000
				Sub Total:	**$120,000**
	Recovery Wells				
10	Construct Recovery Well (well, well head, and discharge)	1	EA	$300,000	$300,000
				Sub Total:	**$300,000**
	Monitoring Wells				
11	Construct Shallow Monitoring Wells	2	EA	$25,000	$50,000
				Sub Total:	**$50,000**
	Other Site Improvements				
12	Furnish and Install Perimeter Wire Fence and Gates	5,300	LF	$10	$50,000
13	Furnish and Install 3/4" Crushed Gravel for Levees (16' Wide, 7,000 LF, 3" Thick, 105 lb/cf)	1,500	TON	$25	$40,000
14	Construct Overhead Electric Lines for Recovery Well	1,100	LF	$25	$30,000
15	Misc Site Electrical	1	LS	$60,000	$60,000
				Sub Total:	**$180,000**
	Subtotal				$1,240,000
	Contingency			15%	$186,000
			PRELIMINARY COST ESTIMATE:		**$1,430,000**

NOTE(S):

EST. 1968
PROVOST& PRITCHARD
CONSULTING GROUP
An Employee Owned Company

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Consolidated Irrigation District
South and Highland Basin
Alternative 4 (North 1/2 of Property)
(revised 11-11-2010)

CONCEPTUAL

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Amount
1	Mobilization/demobilization, bonds & insurance (5%)	1	LS	$70,000	$70,000
2	Worker Protection (5%)	1	LS	$70,000	$70,000
				Sub Total:	**$140,000**
	Basin Earthwork				
3	Clearing and Grubbing	50	AC	$700	$40,000
4	Site Demolition (Buildings, Overhead Electric, etc.)	1	LS	$100,000	$100,000
5	Cell 1 Levee Earthwork (Fill)	20,000	CY	$4	$80,000
6	Cell 2 Levee Earthwork (Fill)	15,000	CY	$4	$60,000
7	Excavate and Export Surplus Earthwork	84,000	CY	$4	$340,000
				Sub Total:	**$620,000**
	Control/Diversion Structures				
8	Furnish and Install Basin Turnout Structure w/ 48" Slide Gate	2	EA	$50,000	$100,000
9	Flow Measurement (Flow Meter at Basin Turnout)	2	EA	$10,000	$20,000
10	Construct Project Diversion Check Structure and Apurtenances (Misc Metals, Stilling Well, etc.)	1	LS	$100,000	$100,000
				Sub Total:	**$220,000**
	Recovery Wells				
11	Construct Recovery Well (well, well head, and discharge)	1	EA	$300,000	$300,000
				Sub Total:	**$300,000**
	Monitoring Wells				
12	Construct Shallow Monitoring Wells	2	EA	$25,000	$50,000
				Sub Total:	**$50,000**
	Other Site Improvements				
13	Furnish and Install Perimeter Wire Fence and Gates	4,900	LF	$10	$50,000
14	Furnish and Install 3/4" Crushed Gravel for Levees (16' Wide, 7,400 LF, 3" Thick, 105 lb/cf)	1,500	TON	$25	$40,000
15	Construct Overhead Electric Lines for Recovery Wells	1,000	LF	$25	$30,000
16	Misc Site Electrical	1	LS	$50,000	$50,000
				Sub Total:	**$170,000**
	Subtotal				$1,500,000
	Contingency			15%	$225,000
			PRELIMINARY COST ESTIMATE:		**$1,730,000**

NOTE(S):

EST. 1968
PROVOST& PRITCHARD
CONSULTING GROUP
An Employee Owned Company

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Consolidated Irrigation District
South and Highland Basin
Phase P w/ Recovery Well
(revised 11-11-2010)

CONCEPTUAL

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Amount
1	Mobilization/demobilization, bonds & insurance (5%)	1	LS	$30,000	$30,000
2	Worker Protection (5%)	1	LS	$30,000	$30,000
				Sub Total:	**$60,000**
	Basin Earthwork				
3	Clearing and Grubbing	17	AC	$700	$10,000
4	Cell 2 Levee Earthwork (Fill)	15,000	CY	$4	$60,000
5	Excavate and Export Surplus Earthwork to Proposed Cell 3	35,000	CY	$4	$140,000
				Sub Total:	**$210,000**
	Control/Diversion Structures				
6	Furnish and Install Basin Turnout Structure w/ 48" Slide Gate	1	EA	$50,000	$50,000
7	Flow Measurement (Flow Meter at Basin Turnout)	2	EA	$10,000	$20,000
				Sub Total:	**$70,000**
	Recovery Wells				
8	Construct Recovery Well (well, well head, and discharge)	1	EA	$300,000	$300,000
				Sub Total:	**$300,000**
	Other Site Improvements				
9	Construct Overhead Electric Lines for Recovery Well	1,000	LF	$25	$30,000
10	Misc Site Electrical	1	LS	$50,000	$50,000
				Sub Total:	**$80,000**
	Subtotal				$700,000
	Contingency			15%	$105,000
				PRELIMINARY COST ESTIMATE:	**$810,000**

NOTE(S):

Attachment 4.1 - Detailed Budget - City of Clovis Surface Water Treatment Plant Expansion

Task No.	Task Description	Project Manager (hrs)	Senior Professional (hrs)	Assistant Professional (hrs)	Technician (hrs)	Administration (hrs)	Labor Total	Other Direct Costs	Non-State Share (Funding Match)	Requested Grant Funding	Total	% Funding Match
		$160	$140	$105	$85	$60						
a	**Direct Project Administration Costs**	**310**	**20**	**44**	**116**	**220**	**$ 80,000**	**$ 40,000**	$ 70,000.00	$ 50,000.00	$ 120,000.00	58%
1	Project Administration	266	0	0	100	150	$ 60,000	$ 20,000	$ 30,000.00	$ 50,000.00	$ 80,000.00	38%
2	Labor Compliance Program	4	0	4	0	32	$ 3,000	$ 17,000	$ 20,000.00		$ 20,000.00	100%
3	Reporting	40	20	40	16	37	$ 17,000	$ 3,000	$ 20,000.00		$ 20,000.00	100%
b	**Land Purchase/Easement**								$ 10,000.00	$ 30,000.00	$ 40,000.00	25%
c	**Planning/Design/Engineering/Environmental Documentation**	**229**	**120**	**330**	**478**	**73**	**$ 133,100**	**$ 38,000**	$ 63,150.00	$ 107,950.00	$ 171,100.00	37%
4	Assessment and Evaluation	43	0	40	40	8	$ 15,000	$ 5,000	$ 5,000.00	$ 15,000.00	$ 20,000.00	25%
5	Final Design	162	120	250	350	40	$ 101,100	$ 20,000	$ 45,650.00	$ 75,450.00	$ 121,100.00	38%
6	Environmental Documentation	8	0	40	8	14	$ 7,000	$ 3,000	$ 2,500.00	$ 7,500.00	$ 10,000.00	25%
7	Permitting	16			80	11	$ 10,000	$ 10,000	$ 10,000.00	$ 10,000.00	$ 20,000.00	50%
d	**Construction/Implementation**								$ 898,250.00	$ 2,223,750.00	$ 3,122,000.00	29%
8	Construction Contracting								$ 10,000.00	$ 30,000.00	$ 40,000.00	25%
9.1	Mobilization and Site Preparation								$ 17,000.00	$ 40,000.00	$ 57,000.00	30%
9.2	Project Construction								$ 851,250.00	$ 2,123,750.00	$ 2,975,000.00	29%
9.2.1	*Membrane Feed Pump and Strainer*								*$ 105,000.00*	*$ 245,000.00*	*$ 350,000.00*	*30%*
9.2.2	*Membrane Racks*								*$ 540,000.00*	*$ 1,260,000.00*	*$ 1,800,000.00*	*30%*
9.2.3	*Solids Drying Bed/sewer connection*								*$ 181,250.00*	*$ 543,750.00*	*$ 725,000.00*	*25%*
9.2.4	*Electrical/Instrumentation*								*$ 25,000.00*	*$ 75,000.00*	*$ 100,000.00*	*25%*
9.3	Performance Testing for Startup Operations								$ 20,000.00	$ 30,000.00	$ 50,000.00	40%
e	**Environmental Compliance/ Mitigation/Enhancement**								$ -	$ -	$ -	0%
10	Environmental Compliance/ Mitigation/Enhancement								$ -	$ -	$ -	0%
f	**Construction Administration**	**240**	**40**	**160**	**227**	**40**	**$ 82,500**	**$ 15,000**	$ 27,500.00	$ 70,000.00	$ 97,500.00	28%
11	Construction Administration	240	40	160	227	40	$ 82,500	$ 15,000	$ 27,500.00	$ 70,000.00	$ 97,500.00	28%
g	**Other**								$ 25,000.00	$ 50,000.00	$ 75,000.00	33%
h	**Construction/Implementation Contingency (20%)**								$ 156,100.00	$ 468,300.00	$ 624,400.00	25%
	TOTAL								**$ 1,250,000.00**	**$ 3,000,000.00**	**$ 4,250,000.00**	**29%**

Attachment 4 - Detailed Budget - Drummond Jenson Ave Sewer Connection Study

Task No.	Task Description	Project Manager (hrs)	Senior Professional (hrs)	Assistant Professional (hrs)	Technician (hrs)	Administration (hrs)	Labor Total	Other Direct Costs	Non-State Share (Funding Match)	Requested Grant Funding	Total	% Funding Match
		$160	$140	$105	$85	$60						
a	**Direct Project Administration Costs**	**28**	**0**	**21**	**16**	**16**	**$ 9,000**	**$ 6,000**	$ -	$ 15,000	$ 15,000	0%
1	Project Administration	15	0	4	8	8	$ 4,000	$ 1,000	$ -	$ 5,000	$ 5,000	0%
2	Labor Compliance Program	5	0	2	0	0	$ 1,000	$ 4,000	$ -	$ 5,000	$ 5,000	0%
3	Reporting	8	0	15	8	8	$ 4,000	$ 1,000	$ -	$ 5,000	$ 5,000	0%
b	**Land Purchase/Easement**								$ -	$ -	$ -	N/A
c	**Planning/Design/Engineering/Environmental Documentation**	**158**	**60**	**190**	**463**	**44**	**$ 95,590**	**$ 8,500**	$ -	$ 104,090	$ 104,090	0%
4	Assessment and Evaluation	30		24	8	8	$ 8,500	$ 1,500	$ -	$ 10,000	$ 10,000	0%
5.1	Surveying	40	40	80	315	8	$ 47,636		$ -	$ 47,636	$ 47,636	0%
5.2	Final Design	80	20	80	132	20	$ 36,454	$ 5,000	$ -	$ 41,454	$ 41,454	0%
6	Environmental Documentation	8		5	8	8	$ 3,000	$ 2,000	$ -	$ 5,000	$ 5,000	0%
d	**Construction/Implementation**								$ -	$ -	$ -	N/A
e	**Environmental Compliance/ Mitigation/Enhancement**								$ -	$ -	$ -	N/A
f	**Construction Administration**								$ -	$ -	$ -	N/A
g	**Other Costs**								$ -	$ -	$ -	N/A
h	**Construction/Implementation Contingency (10%)**								$ -	$ -	$ -	N/A
	TOTAL								**$ -**	**$ 119,090**	**$ 119,090**	**0%**

Attachment 4 - Detailed Budget - City of Fresno Residential Water Meter Project (Area IV) (Full Funding)

Task No.	Task Description	Project Manager (hrs)	Senior Professional (hrs)	Assistant Professional (hrs)	Technician (hrs)	Administration (hrs)	Labor Total	Other Direct Costs	Non-State Share (Funding Match)	Requested Grant Funding	Total	% Funding Match
		$160	$140	$105	$85	$60						
a	**Direct Project Administration Costs**	**100**	**0**	**10**	**60**	**32**	**$ 24,000**	**$ 13,000**	$ 12,527	$ 24,473	$ 37,000	34%
1	Project Administration	57			40	8	$ 13,000	$ 2,000	$ 5,079	$ 9,921	$ 15,000	34%
2	Labor Compliance Program	10				8	$ 2,000	$ 10,000	$ 4,063	$ 7,937	$ 12,000	34%
3	Reporting	33		10	20	16	$ 9,000	$ 1,000	$ 3,386	$ 6,614	$ 10,000	34%
b	**Land Purchase/Easement**								$ -	$ -	$ -	N/A
c	**Planning/Design/Engineering/Environmental Documentation**								$ -	$ -	$ -	N/A
4	Assessment and Evaluation										$ -	N/A
5	Final Design										$ -	N/A
6	Environmental Documentation										$ -	N/A
7	Permitting										$ -	N/A
d	**Construction/Implementation**								$ 1,897,568	$ 3,706,977	$ 5,604,545	34%
8	Construction Contracting								$ 16,929	$ 33,071	$ 50,000	34%
9.1	Mobilization and Site Preparation								$ 16,929	$ 33,071	$ 50,000	34%
9.2	Project Construction								$ 1,860,325	$ 3,634,221	$ 5,494,545	34%
9.3	Performance Testing for Startup Operations								$ 3,386	$ 6,614	$ 10,000	34%
e	**Environmental Compliance/ Mitigation/Enhancement**								$ -	$ -	$ -	0%
10	Environmental Compliance/ Mitigation/Enhancement								$ -	$ -	$ -	0%
f	**Construction Administration (9% of Construction Costs)**								$ 207,547	$ 405,453	$ 613,000	34%
11	Construction Administration								$ 207,547	$ 405,453	$ 613,000	34%
g	**Other Costs**								$ -	$ -	$ -	N/A
h	**Construction/Implementation Contingency (10%)**								$ 189,757	$ 370,698	$ 560,455	34%
	TOTAL								**$ 2,307,400**	**$ 4,507,600**	**$ 6,815,000**	**34%**

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

BAKMAN WATER COMPANTY - WATER METER INSTALLATION

Construction Costs shown in Task (d)

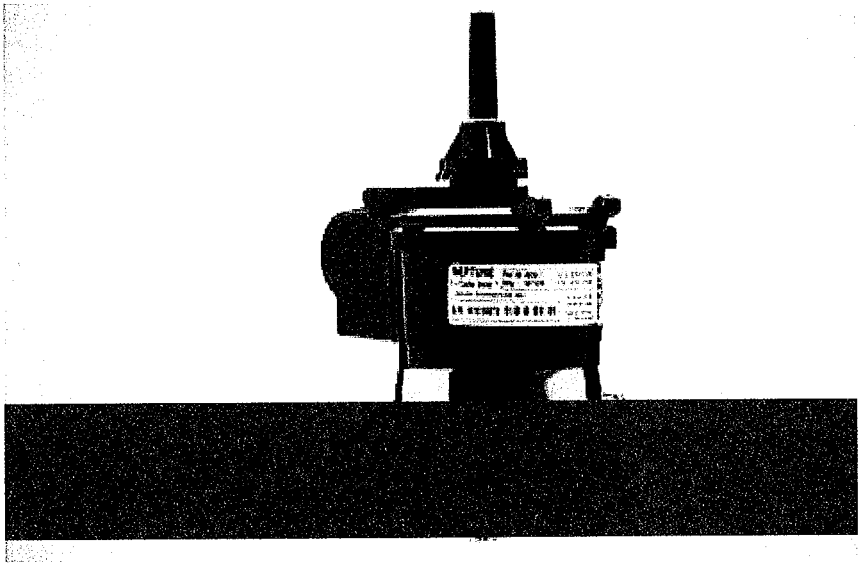
PRELIMINARY

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Amount
1	1" Neptune Water Meters	2453	EA	$350	$858,600
2	Utility Box	2453	EA	$50	$122,700
3	Water Lid	2453	EA	$25	$61,300
4	1" Meter Swivel Curb Stop	2453	EA	$60	$147,200
5	1" Meter Tail	2453	EA	$12	$29,400
6	1" Stainless Steel Inserts	4906	EA	$1.20	$5,900
7	1" Meter Gaskets	4906	EA	$0.20	$1,000
8	1" SDR9 Tubing (10 feet-average)	2453	EA	$3.00	$7,400
9	Miscellaneous Plumbing Parts	2453	LS	$25	$61,300
10	Labor and Installation	2453	EA	$480	$1,177,400
				SUBTOTAL	**$2,472,200**
11	Performance Testing	1	LS	$15,000	$15,000
				SUBTOTAL	**$15,000**

PRELIMINARY COST ESTIMATE: **$2,487,200**

E-Coder)R900*i* ™

The E-Coder)R900*i* ™ combines the field-proven R900® radio frequency meter interface unit (MIU) with our E-Coder® Solid State Absolute Encoder into one integrated package to offer utilities the advantages of the cost savings associated with the ease and speed of installation. The E-Coder)R900*i* does not have any external wires to be installed or require any special programming for operation.



1" Meters - $350.00

Key Features

- 8-digit remote meter reading
- Logs 96 days of hourly consumption data
- Leak, tamper, and reverse flow detection
- Ease of installation – no external wiring
- Solid-state absolute encoder
- No FCC license required
- No MIU programming required
- Long-life lithium battery
- Encoder metrology requires no battery
- Available in both pit and inside versions
- Fully submersible pit version
- LCD leak indicators
- Directional flow indicator
- Rate of flow on LCD display

2010 pricing
Meter retrofit on existing services

1" IP x meter swivel curb stops - $63.00 each
1" SDR9 x meter swivel curb stops - $37.90 each
Average between two styles ($50.45)
1" meter tail - $10.40 each
1" stainless steel inserts - $1.14 each
2 needed ($2.28)
1" meter gaskets - $ .20 each
2 needed ($ .40)
1" SDR9 tubing - $ .30 per/ft
Average 10' per service ($3.00)
FL9 fiberlite box - $30.46 each
FL9 water lid - $19.81 each
Misc. plumbing parts - $20 per install

Labor @ $60 per/hr. - $480 per/day / 1 man
Parts - $136.80
Meter - $350.00
Tax – $43.69

Total - $1,010.49 per installation

100/year — #101,049.00 per year including meters
(#35,000.00 meters)
(#66,049.00 w/out meters)

Attachment 4.1 - Bakman W.C. Water Meter Installation Project - Detailed Budget

Task No.	Task Description	Project Manager	Senior Professional	Assistant Professional	Technician	Administration	Labor Total	Other Direct Costs	Grand Total
	Billing rate	$160	$140	$105	$85	$60			
(a)	**Direct Project Administration Costs**	**56**	**40**	**40**	**36**	**40**	**$24,220**	**$17,000**	**$41,220**
1.1	Project Administration	40	20	-	16	20	$11,760	$2,000	$13,760
2.1	Labor Compliance Program	8	-	-	-	-	$1,280	$10,000	$11,280
3.1	Reporting	8	20	40	20	20	$11,180	$5,000	$16,180
(b)	**Land Purchase/Easement**	**-**	**-**	**-**	**-**	**-**	**$0**	**$0**	**$0**
	Land Acquisition	-	-	-	-	-	$0	$0	$0
(c)	**Planning/Design/Engineering/Environmental Documentation**	**36**	**76**	**40**	**20**	**36**	**$99,960**	**$20,000**	**$119,960**
4.1	Previous Studies and Coordination	40	80	40	20	20	$24,700	$5,000	$29,700
5.1	Final Design	40	120	120	120	80	$50,800	$5,000	$55,800
6.1	Environmental Process and Documentation	16	16	-	-	16	$5,760	$5,000	$10,760
7.1	Permitting	20	60	40	20	20	$18,700	$5,000	$23,700
(d)	**Construction/Implementation (Refer to Attachment 4.2)**	**12**	**28**	**20**	**8**	**36**	**$10,780**	**$2,487,200**	**$2,497,980**
8.1	Project Bidding	8	20	20	8	32	$8,780	$0	$8,780
8.2	Award of Contract	4	8	-	-	4	$2,000	$0	$2,000
9.1	Project Construction	-	-	-	-	-	$0	$2,487,200	$2,487,200
(e)	**Environmental Compliance/ Mitigation/Enhancement**	**-**	**-**	**-**	**-**	**-**	**$0**	**$0**	**$0**
10	Environmental Compliance/Mitigation/Enhancement	-	-	-	-	-	$0	$0	$0
(f)	**Construction Administration**	**40**	**196**	**-**	**60**	**20**	**$40,140**	**$0**	**$40,140**
11.1	Construction Observation	40	180	-	-	-	$31,600	$0	$31,600
11.2	Record Drawings	-	16	-	60	20	$8,540	$0	$8,540
(g)	**Other**	**-**	**-**	**-**	**-**	**-**	**$0**	**$0**	**$0**
12.1	On-going Monitoring and Administration	Costs provided by Bakman					$0	$0	$0
12.2	On-going Operation and Maintenance	Costs provided by Bakman					$0	$0	$0
(h)	**Construction/Implementation Contingency**	**-**	**-**	**-**	**-**	**-**	**$0**	**$249,000**	**$249,000**
13	Construction Contingency (10%)	-	-	-	-	-	$0	$249,000	$249,000
Total hours		**144**	**340**	**100**	**124**	**132**	**$175,100**	**$2,524,200**	**$2,948,300**

Table 8 - Summary Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects - Full Funding

Individual Project Title		Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match*
(a)	CID South & Highland Basin	$400,000	$4,227,000	$0	$4,627,000	**9%**
(b)	City of Clovis SWTP Expansion	$1,250,000	$3,000,000	$0	$4,250,000	**29%**
(c)	Drummond Jensen Ave Sewer Connection Study (DAC)	$0	$119,090	$0	$119,090	**0%**
(d)	East Orosi Well Rehabilitation (DAC)	$0	$137,000	$0	$137,000	**0%**
(e)	City of Fresno Residential Water Meter Project (Area IV)	$2,307,400	$4,507,600	$0	$6,815,000	**34%**
(f)	Bakman Water Meter Installation Project (DAC)	$0	$1,342,643	$0	$1,342,643	**0%**
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$3,957,400**	**$13,333,333**	**$0**	**$17,290,733**	**25%**

* Note: Average "% Funding Match" assumes Disadvantaged Community Waivers for the three DAC projects.

Table 8 - Summary Budget

Proposal Title: Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects - Reduced Funding

Individual Project Title		Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match*
(a)	CID South & Highland Basin	$400,000	$2,800,000	$0	$3,200,000	**13%**
(b)	City of Clovis SWTP Expansion	$1,250,000	$3,000,000	$0	$4,250,000	**29%**
(c)	Drummond Jensen Ave Sewer Connection Study (DAC)	$0	$119,090	$0	$119,090	**0%**
(d)	East Orosi Well Rehabilitation (DAC)	$0	$137,000	$0	$137,000	**0%**
(e)	City of Fresno Residential Water Meter Project (Area IV)	$6,204,423	$610,577	$0	$6,815,000	**91%**
(f)						
(g)						
(h)						
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$7,854,423**	**$6,666,667**	**$0**	**$14,521,090**	**55%**

* Note: Average "% Funding Match" assumes Disadvantaged Community Waivers for the three DAC projects.